



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/005,228A  
Source: 1FW16  
Date Processed by STIC: 10/4/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

~~TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER~~  
~~VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND~~  
~~TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:~~

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

# Raw Sequence Listing Error Summary

**ERROR DETECTED**      **SUGGESTED CORRECTION**      SERIAL NUMBER: 10/005,228A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ **Wrapped Nucleics  
Wrapped Aminos**      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ **Invalid Line Length**      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ **Misaligned Amino  
Numbering**      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☒ **Non-ASCII**      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ **Variable Length**      Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ **PatentIn 2.0  
"bug"**      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ **Skipped Sequences  
(OLD RULES)**      Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ **Skipped Sequences  
(NEW RULES)**      Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 ☐ **Use of n's or Xaa's  
(NEW RULES)**      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ **Invalid <213>  
Response**      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.
- 11 ☐ **Use of <220>**      Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ **PatentIn 2.0  
"bug"**      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ **Misuse of n/Xaa**      "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

DATE: 10/04/2004

PATENT APPLICATION: US/10/005,228A

TIME: 10:43:11

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

*see item 4 on  
Error summary sheet*

3 <110> APPLICANT: Genetics Institute  
 4 Karen, Lyons  
 5 Vicki, Rosen  
 6 Aaron, Daluiski  
 7 Thomas, Engstrand  
 8 Matthew, Bahamonde  
 9 Gamer, Laura  
 10 Agius, Eric  
 12 <120> TITLE OF INVENTION: Method and Composition for Modulating Bone Growth  
 14 <130> FILE REFERENCE: 22058-554 UTIL  
 16 <140> CURRENT APPLICATION NUMBER: 10/005,228A  
 17 <141> CURRENT FILING DATE: 2001-12-03  
 19 <150> PRIOR APPLICATION NUMBER: US 60/250,535  
 20 <151> PRIOR FILING DATE: 2000-12-01  
 22 <160> NUMBER OF SEQ ID NOS: 9  
 24 <170> SOFTWARE: PatentIn version 3.2

*pp 1-7*

## ERRORED SEQUENCES

**Does Not Comply  
Corrected Diskette Needed**

26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 2952  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Homo sapiens  
 31 <400> SEQUENCE: 1  
 E--> 32 gaagcgaata gcgtttttcag agatattggg cggctcaagg gtcttactct gtcgcccagt  
 33 60  
 E--> 35 ctgtaatgca gtgctgtgac catagccac tgcagcctcc acctcccagg ctcaagcagt  
 36 120  
 E--> 38 ccttcccccc tcgccctcat gaatagctgg gactacagcc tggagcattg gtaagcgtca  
 39 180  
 E--> 41 cactgcaaaa gtgagagctg ctggagaact cataatccca ggaacgcttc ttctactctc  
 42 240  
 E--> 44 cgagtacccc agtgaccaga gtgagagaag ctctgaacga gggcacgcgg cttgaaggac  
 45 300  
 E--> 47 tgtgggcaga tgtgaccaag agcctgcatt aagttgtaca atggtagatg gagtgatgat  
 48 360  
 E--> 50 tcttctctgtg cttatcatga ttgctctccc ctcccctagt atggaagatg agaagcccaa  
 51 420  
 E--> 53 ggtcaacccc aaactctaca tgtgtgtgtg tgaaggtctc tctgcggtta atgaggacca  
 54 480  
 E--> 56 ctgtgaaggc cagcagtgtt tttctcact gagcatcaac gatggcttcc acgtctacca  
 57 540

*60 (see  
item 1  
on Error  
summary  
sheet)  
120  
180*

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DATE: 10/04/2004

PATENT APPLICATION: US/10/005,228A

TIME: 10:43:11

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

E--> 59 gaaaggctgc ttccaggttt atgagcaggg aaagatgacc tgtaagaccc cgccgtcccc  
60 600  
E--> 62 tggccaagct gtggagtget gccaaagggga ctggtgtaac aggaacatca cgccccagct  
63 660  
E--> 65 gccactaaa ggaaaatcct tccctggaac acagaatttc cacttgaggg ttggcctcat  
66 720  
E--> 68 tattctctct gtagtgttcg cagtatgtct tttagcctgc ctgctgggag ttgctctccg  
69 780  
E--> 71 aaaatttaaa aggcgcgaacc aagaacgcct caatccccga gacgtggagt atggcactat  
72 840  
E--> 74 cgaagggtc atcaccacca atgttgaga cagcacttta gcagatttat tggatcattc  
75 900  
E--> 77 gtgtacatca ggaagtggct ctggtcttcc tttcttgga caaagaacag tggctcgcca  
78 960  
E--> 80 gattacactg ttggagtgtg tcgggaaagg caggtatggt gaggtgtgga ggggcagctg  
81 1020  
E--> 83 gcaaggggaa aatgttgccg tgaagatctt ctccctccgt gatgagaagt catggttcag  
84 1080  
E--> 86 ggaaacggaa ttgtacaaca ctgtgatgct gaggcataaa aatatcttag gtttcattgc  
87 1140  
E--> 89 ttcagacatg acatcaagac actccagtac ccagctgtgg ttaattacac attatcatga  
90 1200  
E--> 92 aatgggatcg ttgtacgact atcttcagct tactactctg gatacagtta gctgccttcg  
93 1260  
E--> 95 aatagtgtcg tccatagcta gtggtcttgc acatttgac atagagatat ttgggaccca  
96 1320  
E--> 98 agggaaacca gccattgccc atcgagattt aaagagcaaa aatattctgg ttaagaagaa  
99 1380  
E--> 101 tggacagtgt tgcatagcag atttgggcct ggcagtcatg cattcccaga gcaccaatca  
102 1440  
E--> 104 gcttgatgtg gggaacaatc cccgtgtggg caccaagcgc tacatggccc ccgaagttct  
105 1500  
E--> 107 agatgaaacc atccaggtgg attgtttcga ttcttataaa agggctgata tttgggcctt  
108 1560  
E--> 110 tggacttggt ttgtgggaag tggccaggcg gatggtgagc aatggtatag tggaggatta  
111 1620  
E--> 113 caagccaccg ttctacgatg tggttcccaa tgacccaagt tttgaagata tgaggaaggt  
114 1680  
E--> 116 agtctgtgtg gatcaacaaa ggccaaacat acccaacaga tggttctcag acccgacatt  
117 1740  
E--> 119 aacctctctg gccaaagctaa tgaaagaatg ctggtatcaa aatccatccg caagactcac  
120 1800  
E--> 122 agcactgcgt atcaaaaaga ctttgaccaa aattgataat tccctcgaca aattgaaaa  
123 1860  
E--> 125 tgactgttga cattttcata gtgtcaagaa ggaagatttg acgttggtgt cattgtccag  
126 1920  
E--> 128 ctgggaccta atgctggcct gactggttgt cagaatggaa tccatctgtc tccctcccca  
129 1980  
E--> 131 aatggctgct ttgacaaggc agacgtcgta cccagccatg tggtggggag acatcaaaac

*same  
error*

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TIME: 10:43:11

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

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132 2040
E--> 134 caccctaacc tcgctcgatg actgtgaact gggcatttca cgaactgttc acactgcaga
135 2100
E--> 137 gactaatggt ggacagacac tgttgcaaag gtagggactg gaggaacaca gagaaatcct
138 2160
E--> 140 aaaagagatc tgggcattaa gtcagtggct ttgcatagct ttcacaagtc tcctagacac
141 2220
E--> 143 tccccacggg aaactcaagg aggtggtgaa tttttaatca gcaatattgc ctgtgcttct
144 2280
E--> 146 cttcttttatt gcactaggaa ttctttgcat tccttacttg cactgttact ctttaattta
147 2340
E--> 149 aagacccaac ttgccaaaat gttggctgcg tactccactg gtctgtcttt ggataatagg
150 2400
E--> 152 aattcaattt ggcaaaacaa aatgtaatgt cagactttgc tgcattttac acatgtgctg
153 2460
E--> 155 atgtttacaa tgatgccgaa cattaggaat tgtttataca caactttgca aattatttat
156 2520
E--> 158 tacttgtgca cttagtagtt ttacaaaac tgctttgtgc atatgttaaa gcttattttt
159 2580
E--> 161 atgtggtctt atgattttat tacagaaatg tttttaacac tatactctaa aatggacatt
162 2640
E--> 164 ttcttttatt atcagttaaa atcacatttt aagtgttca catttgtagt tgtgtagact
165 2700
E--> 167 gtaacttttt ttcagttcat atgcagaacg tatttagcca ttaccacgt gacaccacg
168 2760
E--> 170 aatatattat cgatttagaa gcaaagattt cagtagaatt ttagtcctga acgctacggg
171 2820
E--> 173 gaaaatgcat tttcttcaga attatccatt acgtgcattt aaactctgcc agaaaaaaat
174 2880
E--> 176 aactattttg ttttaactta ctttttgtat ttagtagtta tttgtataaa ttaataaac
177 2940
E--> 179 tgttttcaag tc
180 2952
318 <210> SEQ ID NO: 3
319 <211> LENGTH: 1969
320 <212> TYPE: DNA
321 <213> ORGANISM: Homo sapiens
323 <400> SEQUENCE: 3
E--> 324 aggaaacggt ttattaggag ggagtgggtg agctgggcca ggcaggaaga cgctggaata
325 60
E--> 327 agaaacattt ttgctccagc ccccatccca gtcccgaggag gctgccgcgc cagctgcgc
328 120
E--> 330 gacgagccc ctccccggt ccagcccgt cggggccgc gccggacccc agcccgcgt
331 180
E--> 333 ccagcgctgg cgggtgcaact gcggccgcgc ggtggagggg aggtggcccc ggtccgcga
334 240
E--> 336 aggctagcgc ccgcccaccc gcagagcggg ccagagggga ccatgacctt gggctcccc
337 300
E--> 339 aggaaaggcc ttctgatgct gctgatggcc ttggtgaccc agggagaccc tgtgaagccg

```

*same**same*

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DATE: 10/04/2004

PATENT APPLICATION: US/10/005,228A

TIME: 10:43:11

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

340 360  
E--> 342 tctcggggcc cgctggtgac ctgcacgtgt gagagccac attgcaaggg gcctacctgc  
343 420  
E--> 345 cggggggcct ggtgcacagt agtgetggtg cgggaggagg ggaggcacc ccaggaacat  
346 480  
E--> 348 cggggctgcg ggaacttgca caggagctc tgcagggggc gccccaccga gtctgtcaac  
349 540  
E--> 351 cactactgct gcgacagcca cctctgcaac cacaacgtgt ccctggtgct ggaggccacc  
352 600  
E--> 354 caacctcctt cggagcagcc gggaacagat ggccagctgg ccctgatcct gggccccgtg  
355 660  
E--> 357 ctggccttgc tggccctggt ggccctgggt gtccctgggc tgtggcatgt ccgacggagg  
358 720  
E--> 360 caggagaagc agcgtggcct gcacagcgag ctgggagagt ccagtctcat cctgaaagca  
361 780  
E--> 363 tctgagcagg gcgacacgat gttgggggac ctccctggaca gtgactgcac cacagggagt  
364 840  
E--> 366 ggctcagggc tccccttctt ggtgcagagg acagtggcac ggcaggttgc cttggtggag  
367 900  
E--> 369 tgtgtgggaa aaggccgcta tggcgaagtg tggcggggct tgtggcacgg tgagagtgtg  
370 960  
E--> 372 gccgtcaaga tcttctcttc gagggatgaa cagtccctggt tccgggagac tgagatctat  
373 1020  
E--> 375 aacacagtat tgctcagaca cgacaacatc ctaggcttca tcgcctcaga catgacctcc  
376 1080  
E--> 378 cgcaactcga gcacgcagct gtggctcatc acgcactacc acgagcacgg ctccctctac  
379 1140  
E--> 381 gactttctgc agagacagac gctggagccc catctggctc tgaggctagc tgtgtccgcg  
382 1200  
E--> 384 gcatgcggcc tggcgcacct gcacgtggag atcttcggta cacagggcaa accagccatt  
385 1260  
E--> 387 cccaccgcga cttcaagagc cgcaatgtgc tgggtcaagag caacctgcag tgttgcatcg  
388 1320  
E--> 390 ccgacctggg cctggtgtg atgcactcac agggcagcga ttacctggac atcggaaca  
391 1380  
E--> 393 acccgagagt gggcaccaag cggtagatgg caccgaggt gctggacgag cagatccgca  
394 1440  
E--> 396 cggactgctt tgagtccctac aagtggactg acatctgggc ctttggcctg gtgctgtggg  
397 1500  
E--> 399 agattgcccg ccggaccatc gtgaatggca tcgtggagga ctatagacca cccttctatg  
400 1560  
E--> 402 atgtggtgcc caatgacccc agctttgagg acatgaagaa ggtggtgtgt gtggatcagc  
403 1620  
E--> 405 agacccccac catccctaac cggctggctg cagacccggt cctctcaggc ctagctcaga  
406 1680  
E--> 408 tgatgcggga gtgctggtac ccaaaccctt ctgcccact caccgcgctg cggatcaaga  
409 1740  
E--> 411 agacactaca aaaaattagc aacagtccag agaagcctaa agtgattcaa tagcccagga  
412 1800

*same*

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DATE: 10/04/2004

PATENT APPLICATION: US/10/005,228A

TIME: 10:43:11

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

```

--> 414 gcacctgatt cttttctgcc tgcagggggc tgggggggtg gggggcagtg gatggtgccc
415 1860
--> 417 tatctgggta gaggtagtgt gagtgtggtg tgtgctgggg atgggcagct gcgcctgcct
418 1920
--> 420 gctcggcccc cagcccaccc agccaaaaat acagctgggc tgaaacctg
421 1969
573 <210> SEQ ID NO: 6
574 <211> LENGTH: 1774
575 <212> TYPE: DNA
576 <213> ORGANISM: Homo sapiens
578 <400> SEQUENCE: 6
--> 579 agatcttgaa aacaccggg ccacacacgc cgcgacctac agctctttct cagcgttgga
580 60
--> 582 gtggagacgg cgcccgacgc gccctgcgcg ggtgaggtcc gcgcagctgc tggggaagag
583 120
--> 585 cccacctgtc aggctgcgct gggtcagcgc agcaagtggg gctggcgcgt atctcgtctg
586 180
--> 588 acccgggcgc gtcccgggct cegtgcgccc tcgccccagc tggtttgag ttcaaccctc
589 240
--> 591 ggctccgcgc cgggtcctt gcgccttcgg agtgctccgc agcgacgcgc ggagccgacg
592 300
--> 594 cgccgcgcgg gtacctagcc atggctgggg cgagcaggct gctctttctg tggctgggct
595 360
--> 597 gcttctgcgt gagcctggcg caggagaga gaccgaagcc acctttcccg gagctccgca
598 420
--> 600 aagctgtgcc aggtgaccgc acggcagggt gtggcccgga ctccgagctg cagccgcaag
601 480
--> 603 acaaggtctc tgaacacatg ctgcggctct atgacaggta cagcacggtc caggcgcccc
604 540
--> 606 ggacaccggg ctccctggag ggaggctcgc agccctggcg ccctcggtct ctgcgcgaag
607 600
--> 609 gcaacacggt tcgcagcttt cgggcggcag cagcagaaac tcttgaaaga aaaggactgt
610 660
--> 612 atatcttcaa tctgacatcg ctaaccaagt ctgaaaacat tttgtctgcc aactgtatt
613 720
--> 615 tctgtattgg agagctagga aacatcagcc tgagttgtcc agtgtctgga ggatgctccc
616 780
--> 618 atcatgctca gaggaacac attcagattg atctttctgc atggaccctc aaattcagca
619 840
--> 621 gaaaccaaag tcaactcctt ggccatctgt cagtggatat ggccaaatct catcgagata
622 900
--> 624 ttatgtcctg gctgtctaaa gatatactc aactcttgag gaaggccaaa gaaaatgaag
625 960
--> 627 agttcctcat aggatttaac attacgtcca agggacgcca gctgccaaag aggagggttac
628 1020
--> 630 cttttccaga gccttatatc ttggtatatg ccaatgatgc cgccatttct gagccagaaa
631 1080
--> 633 gtgtgggtatc aagcttacag ggacaccgga attttccac tggaactgtt cccaaatggg
634 1140

```

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DATE: 10/04/2004

TIME: 10:43:11

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

E--> 636 atagccacat cagagctgcc ctttccattg agcggaggaa gaagcgctct actgggggtct  
637 1200

E--> 639 tgctgcctct gcagaacaac gagcttcctg gggcagaata ccagtataaa aaggatgagg  
640 1260

E--> 642 tgtgggagga gagaaagcct tacaagaccc ttcaggctca ggcccctgaa aagagtaaga  
643 1320

E--> 645 ataaaaagaa acagagaaaag gggcctcatc ggaagagcca gacgctccaa tttgatgagc  
646 1380

E--> 648 agaccctgaa aaaggcaagg agaaagcagt ggattgaacc tcggaattgc gccaggagat  
649 1440

E--> 651 acctcaaggt agactttgca gatattggct ggagtgaatg gattatctcc cccaagtcct  
652 1500

E--> 654 ttgatgccta ttattgctct ggagcatgcc agttcccat gccaaagtct ttgaagccat  
655 1560

E--> 657 caaatcatgc taccatccag agtatagtga gagctgtggg ggtcgttctt gggattcctg  
658 1620

E--> 660 agccttgctg tgtaccagaa aagatgtcct cactcagtat tttattcttt gatgaaaata  
661 1680

E--> 663 agaattgagt gcttaaagta taccctaaca tgacagtaga gtcttgcgct tgcagataac  
664 1740

E--> 666 ctggcaaaga actcatttga atgcttaatt caat  
667 1774

797 <210> SEQ ID NO: 8  
798 <211> LENGTH: 17  
799 <212> TYPE: DNA  
800 <213> ORGANISM: Artificial Sequence  
802 <220> FEATURE:  
803 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR Primer  
805 <400> SEQUENCE: 8

E--> 806 ggacagacgc tgctatt  
807 17

810 <210> SEQ ID NO: 9  
811 <211> LENGTH: 17  
812 <212> TYPE: DNA  
813 <213> ORGANISM: Artificial Sequence  
815 <220> FEATURE:  
816 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR Primer  
818 <400> SEQUENCE: 9

E--> 819 tgttctacga ctcactc  
820 17

E--> 825 1  
E--> 827 1

*same*

*same*

*same*

*delete*



10/005,228A 7

<210> 5  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: signal peptide

give  
source  
of genetic  
material  
in <223>  
response

(see item 11  
on Euro Summary  
Sheet)

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/005,228A

DATE: 10/04/2004

TIME: 10:43:13

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

L:32 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:1  
 L:35 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:1  
 L:38 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:1  
 L:41 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:1  
 L:44 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:1  
 L:47 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:1  
 L:50 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:420 SEQ:1  
 L:53 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:480 SEQ:1  
 L:56 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:540 SEQ:1  
 L:59 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:600 SEQ:1  
 L:62 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:660 SEQ:1  
 L:65 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:720 SEQ:1  
 L:68 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:780 SEQ:1  
 L:71 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:840 SEQ:1  
 L:74 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:900 SEQ:1  
 L:77 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:960 SEQ:1  
 L:80 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1020 SEQ:1  
 L:83 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1080 SEQ:1  
 L:86 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1140 SEQ:1  
 L:89 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1200 SEQ:1  
 L:92 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1260 SEQ:1  
 L:95 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1320 SEQ:1  
 L:98 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1380 SEQ:1  
 L:101 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1440 SEQ:1  
 L:104 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1500 SEQ:1  
 L:107 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1560 SEQ:1  
 L:110 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1620 SEQ:1  
 L:113 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1680 SEQ:1  
 L:116 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1740 SEQ:1  
 L:119 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1800 SEQ:1  
 L:122 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1860 SEQ:1  
 L:125 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1920 SEQ:1  
 L:128 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1980 SEQ:1  
 L:131 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2040 SEQ:1  
 L:134 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2100 SEQ:1  
 L:137 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2160 SEQ:1  
 L:140 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2220 SEQ:1  
 L:143 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2280 SEQ:1  
 L:146 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2340 SEQ:1  
 L:149 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2400 SEQ:1  
 L:152 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2460 SEQ:1  
 L:155 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2520 SEQ:1  
 L:158 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2580 SEQ:1  
 L:161 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2640 SEQ:1  
 L:164 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2700 SEQ:1  
 L:167 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2760 SEQ:1  
 L:170 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2820 SEQ:1  
 L:173 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2880 SEQ:1

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/005,228A

DATE: 10/04/2004

TIME: 10:43:13

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

L:176 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2940 SEQ:1  
L:179 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2952 SEQ:1  
L:324 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:3  
L:327 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:3  
L:330 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:3  
L:333 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:3  
L:336 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:3  
L:339 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:3  
L:342 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:420 SEQ:3  
L:345 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:480 SEQ:3  
L:348 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:540 SEQ:3  
L:351 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:600 SEQ:3  
L:354 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:660 SEQ:3  
L:357 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:720 SEQ:3  
L:360 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:780 SEQ:3  
L:363 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:840 SEQ:3  
L:366 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:900 SEQ:3  
L:369 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:960 SEQ:3  
L:372 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1020 SEQ:3  
L:375 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1080 SEQ:3  
L:378 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1140 SEQ:3  
L:381 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1200 SEQ:3  
L:384 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1260 SEQ:3  
L:387 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1320 SEQ:3  
L:390 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1380 SEQ:3  
L:393 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1440 SEQ:3  
L:396 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1500 SEQ:3  
L:399 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1560 SEQ:3  
L:402 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1620 SEQ:3  
L:405 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1680 SEQ:3  
L:408 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1740 SEQ:3  
L:411 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1800 SEQ:3  
L:414 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1860 SEQ:3  
L:417 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1920 SEQ:3  
L:420 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1969 SEQ:3  
L:579 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:6  
L:582 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:6  
L:585 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:6  
L:588 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:6  
L:591 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:6  
L:594 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:6  
L:597 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:420 SEQ:6  
L:600 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:480 SEQ:6  
L:603 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:540 SEQ:6  
L:606 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:600 SEQ:6  
L:609 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:660 SEQ:6  
L:612 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:720 SEQ:6  
L:615 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:780 SEQ:6  
L:618 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:840 SEQ:6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/005,228A

DATE: 10/04/2004

TIME: 10:43:13

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\10042004\J005228A.raw

L:621 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:900 SEQ:6  
 L:624 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:960 SEQ:6  
 L:627 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1020 SEQ:6  
 L:630 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1080 SEQ:6  
 L:633 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1140 SEQ:6  
 L:636 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1200 SEQ:6  
 L:639 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1260 SEQ:6  
 L:642 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1320 SEQ:6  
 L:645 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1380 SEQ:6  
 L:648 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1440 SEQ:6  
 L:651 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1500 SEQ:6  
 L:654 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1560 SEQ:6  
 L:657 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1620 SEQ:6  
 L:660 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1680 SEQ:6  
 L:663 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1740 SEQ:6  
 L:666 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1774 SEQ:6  
 L:806 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:17 SEQ:8  
 L:819 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:17 SEQ:9  
 L:825 M:254 E: No. of Bases conflict, this line has no nucleotides.  
 L:827 M:254 E: No. of Bases conflict, this line has no nucleotides.